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threshold discriminator to filter background noise voltage x ray

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### A device for coupling puke height **discriminator** a scanning **x-ray** ...

With this arrangement the line-to-**background** ratio for a wavelength of about .... **threshold voltage** is shown in figure 3. This **discriminator** works from about 5 .... suppression of scattered radiation and **noise** outside the spectral order n ..... lines: if we **filter** the **x-ray** through a suitable thickness of ...

[www.iop.org/EJ/article/0950-7671/41/1/305/siv41i1p15.pdf](http://www.iop.org/EJ/article/0950-7671/41/1/305/siv41i1p15.pdf) - [Similar pages](#)  
by K Weber - 1964 - [Cited by 1](#) - [Related articles](#)

### Title

A constant fraction **discriminator** (CFD) is to provide a **threshold** against **noise** in ... The signal to **noise** ratio for a single **X ray** is about 20. ... Once the operation **voltage** is selected you will obtain a few **X-ray** images that will be ... The **background noise** and the detector sensitivity can \ vary over the image. ...

[www.particle.kth.se/htmlnew/laboratories/xray/courses/xray\\_instr.html](http://www.particle.kth.se/htmlnew/laboratories/xray/courses/xray_instr.html) - 32k -  
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### Photon counting **X-ray** imaging with CdTe pixel detectors based on ...

compared to a **threshold** value in the **discriminator**. Inserted functions such as shaper or baseline ... The **threshold** has to be set over the **noise background**. ... The high **voltage** of **X-ray** generator is fixed at 100 kV. The ... **Filter 2. Filter 1.** Fig. 7. Linear characteristic of CdTe pixel detector for different flux ...

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by R Franchi - 2007 - [Cited by 1](#) - [Related articles](#) - [All 5 versions](#)

### Low cost digital pocket dosimeter - US Patent 7009182 Description

The 0.8 mm copper **filter** provides the necessary attenuation of the ... In this circuit, the **discriminator threshold** above the **noise** .... The **threshold voltage** adjusted through resistor 7 and potentiometer 8, to cut off the **noise** pulses. .... 250/370.07, Dose or dose rate measurement 250/370.09, **X-ray** or gamma-ray ...

[www.patentstorm.us/patents/7009182/description.html](http://www.patentstorm.us/patents/7009182/description.html) - [Similar pages](#)

### [PDF] A pixel readout chip for medical **X-ray** imaging

File Format: PDF/Adobe Acrobat - [View as HTML](#)

The chip utilises a time-over-**threshold discriminator**; by tuning the shaping of the front- ... **Background noise** is discriminated by the .... Gate **voltage**, high pass-**filter** external. V thr. **Threshold voltage** external ...

[www4.tsl.uu.se/rapporter/licavh/lic\\_Edling.pdf](http://www4.tsl.uu.se/rapporter/licavh/lic_Edling.pdf) - [Similar pages](#)  
by F Edling - 2003 - [Cited by 2](#) - [Related articles](#)

### Testing an Energy-Dispersive Counting- Mode Detector With Hard **X** ...

integrating-mode devices in many fields of medical **x-ray** imaging. There are many reasons for a .... total count rate, i.e. all counts above the **noise threshold** were summed up. ... ever, a **discriminator** with a slightly higher **threshold voltage** is ... is on top of a 'white' **background**. Thus, the region above about ...

[ieeexplore.ieee.org/iel5/23/4545063/04545071.pdf?arnumber=4545071](http://ieeexplore.ieee.org/iel5/23/4545063/04545071.pdf?arnumber=4545071) - [Similar pages](#)  
by C Baumer - 2008 - [Cited by 1](#) - [Related articles](#)

### Low cost digital pocket dosimeter - Patent 7009182

Mar 7, 2006 ... Sankaran A. et al., "Microprocessor-based Diagnostic **X-Ray** Beam Quality Assurance .... electrical pulses c) means to discriminate (a **discriminator**) and **filter** out